# Install PostGIS (<https://postgis.net/install/>)

From Command line: brew install postgis

In Postres: CREATE EXTENSION earthdistance CASCADE;

# Big Query Tables

|  |  |
| --- | --- |
| **Name** (demstxdallascp.sbx\_farrarb…) | **Populated By** |
| address\_extract | *bq-sql/address\_extract.sql* |
| city\_extract.sql | *bq-sql/city\_extract.sql*  References address\_extract |
| person\_extract.sql | *bq-sql/person\_extract.sql*  References address\_extract |
| precinct\_extract.sql | *bq-sql/precinct\_extract.sql* |
| street\_extract.sql | *bq-sql/street\_extract.sql*  References address\_extract |
| streets\_by\_precinct\_extract.sql | *bq-sql/streets\_by\_precinct\_extract.sql*  References address\_extract |
| unit\_extract.sql | *bq-sql/unit\_extract.sql*  References address\_extract |
| reregistration\_targets\_extract.sql | *bq-sql/reregistration\_targets\_extract.sql* |
| direction\_extract.sql | *bq-sql/direction\_extract.sql*  References address\_extract |
| street\_type\_extract.sql | *bq-sql/street\_type\_extract.sql*  References address\_extract |
| unit\_type\_extract.sql | *bq-sql/unit\_type\_extract.sql*  References unit\_extract, city\_extract |

# Postgres Tables

|  |  |
| --- | --- |
| **Name** | **Populated By** |
| bq\_address\_extract  *sql/bq-extracts/address\_extract.sql* | BQ table extract from *bq-sql/address\_extract.sql*. |
| bq\_city\_extract  *sql/bq-extracts/city\_extract.sql* | BQ table extract from *bq-sql/city\_extract.sql*. |
| bq\_person\_extract  *sql/bq-extracts/person\_extract.sql* | BQ table extract from *bq-sql/person\_extract.sql*. |
| bq\_precinct\_extract  *sql/bq-extracts/precinct\_extract.sql* | BQ table extract from *bq-sql/precinct\_extract.sql*. |
| bq\_street\_extract  *sql/bq-extracts/street\_extract.sql* | BQ table extract from *bq-sql/street\_extract.sql*. |
| bq\_streets\_by\_precinct\_extract  *sql/bq-extracts/streets\_by\_precinct\_extract.sql* | BQ table extract from *bq-sql/streets\_by\_precinct\_extract.sql*. |
| bq\_unit\_extract  *sql/bq-extracts/unit\_extract.sql* | BQ table extract from *bq-sql/unit\_extract.sql*. |
| bq\_reregistration\_targets\_extract  *sql/bq-extracts/reregistration\_targets\_extract.sql* | BQ table extract from *bq-sql/reregistration\_targets\_extract.sql*. |
| bq\_reregistration\_targets\_extract\_splitaddress  *sql/bq-extracts/bq\_reregistration\_targets\_extract\_splitaddress.sql* | *sql/populate-tables/bq\_reregistration\_targets\_extract\_splitaddress\_populate.sql* |
|  |  |
| bq\_direction\_extract  *sql/bq-extracts/direction\_extract.sql* | BQ table extract from *bq-sql/direction\_extract.sql*.  NOTE: This table is used for population of the Reregistration Targets address. |
| bq\_street\_type\_extract  *sql/bq-extracts/streets\_type\_extract.sql* | BQ table extract from *bq-sql/street\_type\_extract.sql*.  NOTE: This table is used for population of the Reregistration Targets address. |
| bq\_unit\_type\_extract  *sql/bq-extracts/unit\_type\_extract.sql* | BQ table extract from *bq-sql/unit\_type\_extract.sql*.  NOTE: This table is used for population of the Reregistration Targets address. |
|  |  |
| address\_supplement  *sql/tables/address\_supplement\_create.sql* | Based on: bq\_address\_extract  bq\_unit\_extract  *sql/populate-tables/Populate\_address\_supplement.sql* |
| chairs  *sql/tables/chairs\_create.sql* | Downloaded from Dallas County Democrats web site.  <https://www.dallasdemocrats.org/party/precinct-chairs/> |
| precinct\_chair\_mapping  *sql/tables/precinct\_chair\_mapping.sql* | Downloaded from Dallas County Democrats web site.  <https://www.dallasdemocrats.org/party/precinct-chairs/> |
| precinct\_geocode  *sql/tables/precinct\_geocode\_create.sql* | Based on: bq\_address\_extract  *sql/populate-tables/Populate\_precinct\_geocodes.sql* |
| users  *sql/tables/Users\_Create.sql* | Manually add users, sample script for adding multiple.  *sql/tables/Users\_Create.sql* |
| sessions  *sql/tables/Sessions\_Create.sql* | Populated during login. |
| passcodes  *sql/tables/Passcodes\_Create.sql* | Populated during login. |
|  |  |
| Addresses\_results | Definitions for Function return sets. |
| Get\_Cities\_Results |
| Get\_Precincts\_Results |
| Get\_Registered\_Voters\_Results |
| Get\_Streets\_Results |
| Get\_Unregistered\_Voters\_results |
|  |  |
| registered\_voter\_counts | Temp tables referenced in Functions. |
| unregistered\_voter\_counts |

# Functions

|  |  |
| --- | --- |
| **Name** | **Tables Used** |
| get\_addresses  *Get\_Addresses\_Function.sql* | Addresses\_results  address\_supplement  bq\_address\_extract  bq\_street\_extract  bq\_person\_extract  bq\_unit\_extract  bq\_reregistration\_targets\_extract\_splitaddress |
| get\_cities  *GetCities\_Function.sql* | Get\_Cities\_Results  bq\_city\_extract |
| get\_precincts  *Get\_Precincts\_Function.sql* | Get\_Precincts\_Results  bq\_precinct\_extract  bq\_address\_extract  bq\_reregistration\_targets\_extract  precinct\_chair\_mapping  chairs  registered\_voter\_counts  unregistered\_voter\_counts |
| get\_streets  *GetStreets\_Function.sql* | Get\_Streets\_Results  bq\_street\_extract  bq\_streets\_by\_precinct\_extract |
| Get\_Registered\_Voters  *Get\_Registered\_Voters.sql* | Get\_Registered\_Voters\_Results  bq\_person\_extract  bq\_unit\_extract  bq\_address\_extract  bq\_street\_extract |
| Get\_Unregistered\_Voters  *Get\_Unregistered\_Voters.sql* | Get\_Unregistered\_Voters\_results  bq\_address\_extract  bq\_reregistration\_targets\_extract  bq\_reregistration\_targets\_extract\_splitaddress  bq\_street\_extract  precinct\_geocode |
| update\_address\_f  *Update\_Address\_Function.sql* | address\_supplement |